

**QC ABSTRACT**

NAME OF WORK: Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
3	Coarse aggregate(20 mm down size)	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	3 set /16-30 cum	18.9	6	6
9	NP3 Pipe	Dimension Analysis	One Test		1	1
		Compressive Strength	One Test		1	1
10	NP2 Pipe	Dimension Analysis	One Test		1	1
		Compressive Strength	One Test		1	1

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.D.M.P.

M : 9972924526 | Tel : +91 80 23444801 | E : rechan6630@yahoo.co.in, civilproexperts@gmail.com



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-03-25-52 Date: 27-08-20
 Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
 Address : Kodigehalli Sub Division, BBMP, Bangalore.
 Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.
 Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
 Customer's Reference : BBMP/EE/BTP/WO/82/2020-21
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 24-08-20
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification, IS 4031 (Part 1,2 3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY, Clause 6
 Date of test : 25-08-20
 Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05	—
2	Fineness by Air permeability method (m ² /kg, Min)	293.5	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Minally. N.D
 AE(WA)
 Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore

Page 1/1

****End of Report****



FOR CIVIL Pro.

R. KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

Assistant Executive Engineer
 Kodigehalli Sub Division
 Bruhat Bangalore Mahanagara Palike

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
 GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-03-25-52 Date: 22-09-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.
Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference : BBMP/EE/BTP/WO/82/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-08-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 25-08-20
Environmental Conditions during test : Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Initials N.D
AEC (W)



FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mananagara Palike
Bangalore - 560 092

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-03-25-52 **Date:** 27-08-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura, 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.
Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference : BBMP/EE/BTP/WO/82/2020-21
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 24-08-20
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 24-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	238	238	1.6	98.4	90-100
3	20 mm	7448	7686	51.2	48.8	30-70
4	10 mm	5488	13174	87.8	12.2	10-35
5	4.75 mm	1495	14669	97.8	2.2	0-5
6	Pan	331	15000	100.0	0	---





AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2021-03-25-52

Date: 27-08-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.9	
3	Specific Gravity	2.67	—
4	Bulk Density(Loose) (Kg/l)	1.38	—
5	Bulk Density(Compacted) (Kg/l)	1.43	—
6	Water Absorption(%)	0.25	—

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.



R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 2/2

****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-03-25-52 **Date:** 26-08-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.
Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/82/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-08-20
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 24-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	-

Page 1/2



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2021-03-25-52

Date: 26-08-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	—
4	Bulk Density(Loose) (Kg/l)	1.42	—
5	Bulk Density(Compacted) (Kg/l)	1.48	—
6	Water Absorption(%)	0.35	—
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

10/11/21 N.D
AC(121)

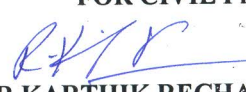

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Page 2/2

End of Report



FOR CIVIL Pro.


R. KARTHIK RECHAN

Authorized Signature
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-03-25-52 Date: 26-08-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.
Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference : BBMP/EE/BTP/WO/82/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-08-20
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 24-08-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

Page 1/2



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-03-25-52

Date: 26-08-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

M. N. D.
AE (W4)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



FOR CIVIL Pro.

R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 2/2

****End of Report****



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2021-03-25-52 Date: 30-09-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.
Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference : BBMP/EE/BTP/WO/82/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-09-20
Sample Type/Size : Solid concrete blocks size (400X100X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test : 26-09-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg. Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	402	102	201	8242	33.157	4023.0	4030.4	Not less than 1800Kg/m ³
2	399	100	198	7900	32.644	4132.1		
3	400	99	200	7920	31.175	3936.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg. Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

Page 1/3



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



Lab ID : CP-2021-03-25-52

Date: 30-09-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	101	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	99	202	
3	402	103	201	
4	403	99	200	
5	399	100	200	
6	402	100	200	
7	401	101	202	
8	403	101	203	
9	401	102	199	
10	404	101	200	
11	404	102	201	
12	399	102	202	
13	401	101	200	
14	403	100	201	
15	400	102	202	
16	399	100	203	
17	401	101	200	
18	400	100	199	
19	399	100	202	
20	400	101	203	
Average of 20	401	101	201	

Page 2/3





Lab ID : CP-2021-03-25-52

Date: 30-09-20

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	101	40414	189.8	4.7	4.7
2	400	99	39602	182.3	4.6	
3	402	103	41366	187.0	4.5	
4	403	99	39983	189.0	4.7	
5	399	100	39764	183.4	4.6	
6	402	100	40092	190.0	4.7	
7	401	101	40507	188.7	4.7	
8	403	101	40831	190.9	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Amulya N.D
AE (M) Assistant Executive Engineer,
Mudigehalli Sub Division,
Yelahanka Zone, B.B.M
Bangalore

Page 3/3

****End of Report****



FOR CIVIL Pro.

R. V. R.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2021-03-25-52 Date: 18-01-21

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.

Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32

Customer's Reference : BBMP/EE/BTP/VO/82/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-01-21

Sample Type /Size : Precast Cover Slab (200mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 13/01/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	151.02	200.48	2.816	17909	180.9	10.1	9.4	11.7
2	Cover Slab-2	150.98	200.52	2.822	17900	182.3	10.2	9.5	11.8
3	Cover Slab-3	151.00	200.51	2.818	17904	181.5	10.1	9.4	11.8

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Signature
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

Page 1/1

****End of Report****



FOR CIVIL Pro.

Signature
KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2021-03-25-52 Date: 04-12-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.

Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/82/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-11-20

Sample Type /Size : CC Kerb Stone/ 450*200*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 30/11/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	A	150.01	200.51	3.164	17670	182.1	10.3	10.3	12.9
2	B	150.03	200.49	3.193	17675	185.2	10.5	10.5	13.1
3	C	150.01	200.50	3.115	17670	185.1	10.5	10.5	13.1

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Signature
AE (W)
 Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.



FOR CIVIL Pro.

Signature
 R KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

Page 1/1

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
 GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-25-52 Date: 03/11/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.
Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference : BBMP/EE/BTP/WO/82/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 29-10-20
Customer ID : Copping Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 03/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Copping Concrete	M15	27/10/2020	03/11/2020	151.85 X 151.73 X 149.44	23040	8.346	293.9	12.8	12.6
2	Copping Concrete	M15	27/10/2020	03/11/2020	149.55 X 150.75 X 151.08	22546	8.695	287.6	12.8	
3	Copping Concrete	M15	27/10/2020	03/11/2020	151.41 X 151.81 X 151.51	22985	8.275	281.0	12.2	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Abhijit N.D
AE (WT)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Page 1/1

****End of Report****



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/11/2020

Lab ID : CP-2021-03-25-52

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.

Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/82/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-10-20

Customer ID : Copping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Copping Concrete	M15	27/10/2020	24/11/2020	149.72 X 150.45 X 149.04	22525	8.543	400.8	17.8	17.4
2	Copping Concrete	M15	27/10/2020	24/11/2020	150.59 X 150.95 X 150.34	22732	8.462	392.0	17.2	
3	Copping Concrete	M15	27/10/2020	24/11/2020	151.47 X 151.09 X 151.38	22887	8.616	395.8	17.3	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Arthy. ND
AE (24)
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



FOR CIVIL Pro.

R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1

****End of Report****



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-25-52 Date: 23/01/2021

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.

Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/82/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-01-21

Customer ID : Copping Concrete For Culverts

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Copping Concrete For Culverts	M15	16/01/2021	23/01/2021	149.63 X 149.41 X 151.41	22356	8.346	273.4	12.2	12.4
2	Copping Concrete For Culverts	M15	16/01/2021	23/01/2021	151.60 X 150.45 X 151.82	22807	8.695	283.6	12.4	
3	Copping Concrete For Culverts	M15	16/01/2021	23/01/2021	150.30 X 149.12 X 152.00	22414	8.275	278.1	12.4	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE (L2)
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Page 1/1

****End of Report****



FOR CIVIL Pro.

R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-25-52 Date: 13/02/2021
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.
Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference : BBMP/EE/BTP/WO/82/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-01-21
Customer ID : Copping Concrete For Culverts
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/02/2021

Date of test : 13/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Copping Concrete For Culverts	M15	16/01/2021	13/02/2021	151.22 X	22934	8.543	399.1	17.4	17.5
					151.66 X					
					151.11					
2	Copping Concrete For Culverts	M15	16/01/2021	13/02/2021	150.36 X	22664	8.462	395.1	17.4	
					150.73 X					
					151.47					
3	Copping Concrete For Culverts	M15	16/01/2021	13/02/2021	151.61 X	22631	8.616	396.4	17.5	
					149.28 X					
					151.90					

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

M. N. D.
A.E. (W)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



FOR CIVIL Pro.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-25-52 Date: 23/01/2021

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.

Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/82/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-01-21

Customer ID : Copping Concrete For Culverts

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Copping Concrete For Culverts	M15	16/01/2021	23/01/2021	151.44 X	22854	8.346	275.5	12.1	12.2
					150.91 X					
					150.70					
2	Copping Concrete For Culverts	M15	16/01/2021	23/01/2021	150.56 X	22680	8.695	277.3	12.2	
					150.64 X					
					151.80					
3	Copping Concrete For Culverts	M15	16/01/2021	23/01/2021	149.64 X	22718	8.275	278.4	12.3	
					151.81 X					
					151.85					

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Amulya N D
AE (124)
Assistant Executive Engineer,
Kodigehalli Sub Division,
B. B. M. P.,
Bangalore



FOR CIVIL Pro.
R KARTHIK RECCHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-25-52 Date: 13/02/2021

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.

Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/82/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-01-21

Customer ID : Copping Concrete For Culverts

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Copping Concrete For Culverts	M15	16/01/2021	13/02/2021	151.80 X 151.47 X 150.40	22994	8.543	403.2	17.5	17.4
2	Copping Concrete For Culverts	M15	16/01/2021	13/02/2021	149.40 X 150.47 X 149.81	22481	8.462	386.4	17.2	
3	Copping Concrete For Culverts	M15	16/01/2021	13/02/2021	149.35 X 150.15 X 150.41	22425	8.616	391.7	17.5	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Ex. Eng.
AE (U)
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yeshanka Zone, B.B.M.P.,
Bangalore.



FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON NP2 RCC PIPES

Lab ID : CP-2021-03-25-52 Date: 29-12-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.

Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32

Customer's Referenc : BBMP/EE/BTP/WO/82/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-12-20

Sample Type/Size : NP2 RCC Pipe

Reference to BIS codes : IS 458:2003

Date of test : 29-12-20

DIMENSION ANALYSIS

Sl.no	Length mm	Diameter mm	Thickness mm	Requirement as per IS 458:2003
1	2498	1201	118	Length : ± 25 mm Diameter : ± 10 mm Height : $+6$ mm/ -3 mm
2	2510	1200	120	
3	2498	1201	122	
4	2500	1202	120	
5	2500	1210	118	
6	2498	1200	120	
7	2497	1201	121	
8	2500	1200	120	
9	2500	1204	118	
10	2500	1200	120	

Page 1/2



R. Subramanian

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



Lab ID : CP-2021-03-25-52

Date: 29-12-20

COMPRESSIVE STRENGTH:

Sl. No.	cube		Area (mm ²)	Failure Load (KN)	Compressive strength N/mm ²	Remark
	D.O.C	D.O.T				
1	01-12-20	29-12-20	22150	789	35.6	Mix (M35) 28 Days
2	01-12-20	29-12-20	22350	791	35.4	
3	01-12-20	29-12-20	22400	786	35.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Handwritten signature
AELH

Handwritten signature

Assistant Executive Engineer, ****End of Report****

Adigehalli Sub Division,
Yeshwanthpur Zone, B.B.M.P.,
Bangalore.



FOR CIVIL Pro.

Handwritten signature
R RUDRAPRASAD
Authorized Signatory
Technical Manager

Page 2/2



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON NP3 RCC PIPES

Lab ID : CP-2021-03-25-52 Date: 29-12-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 01 Includes 2 Works 1) Improvements to Drains of Cross Roads of Amruthanagar A Sector in Ward No.7 Byatarayanapura. 2) Improvements to Drains of 4th to 8th Cross Roads Amruthanagar A Sector in Ward No.7 Byatarayanapura.

Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/82/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-12-20

Sample Type/Size : NP3 RCC Pipe

Reference to BIS codes : IS 458:2003

Date of test : 29-12-20

DIMENSION ANALYSIS

Sl.no	Length mm	Diameter mm	Thickness mm	Requirement as per IS 458:2003
1	2498	751	88	Length : ± 25 mm Diameter : ± 10 mm Height : $+6$ mm/ -3 mm
2	2510	750	90	
3	2498	751	92	
4	2500	752	90	
5	2500	750	88	
6	2498	750	90	
7	2497	751	91	
8	2500	750	90	
9	2500	754	88	
10	2500	750	90	

Page 1/2



R. Ramesh

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



Lab ID : CP-2021-03-25-52

Date: 29-12-20

COMPRESSIVE STRENGTH:

Sl. No.	cube		Area (mm ²)	Failure Load (KN)	Compressive strength N/mm ²	Remark
	D.O.C	D.O.T				
1	01-12-20	29-12-20	22150	784	35.4	Mix (M35) 28 Days
2	01-12-20	29-12-20	22350	796	35.6	
3	01-12-20	29-12-20	22400	788	35.2	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

AE (M35)
AE (M35)

CP



FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

Page 2/2

****End of Report****

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.